

# Chem-Impex International, Inc.

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## Product Specifications

# KNO<sub>3</sub>

|                          |  |
|--------------------------|--|
| <b>Catalogue Number</b>  | 01251  |
| <b>Product</b>           | <b>Potassium nitrate</b><br>Nitric acid potassium salt |
| <b>CAS Number</b>        | 7757-79-1  |
| <b>Molecular Formula</b> | KNO <sub>3</sub>                                       |
| <b>Molecular Weight</b>  | 101.1  |

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|---------------------------|---|
| <b>Appearance</b>         | White to colorless crystalline powder   |
| <b>Solubility</b>         | 32 g in 100 mL water at 20 °C   |
| <b>Heavy Metals</b>       | ≤ 5 ppm (as Pb)   |
| <b>Anion</b>              | Chloride (Cl <sup>-</sup> ) : ≤ 0.002%<br>Sulfate (SO <sub>4</sub> <sup>2-</sup> ) : ≤ 0.003%<br>Phosphate (PO <sub>4</sub> <sup>3-</sup> ) : ≤ 5 ppm<br>Iodate (IO <sub>3</sub> <sup>-</sup> ) : ≤ 5 ppm<br>Nitrite (NO <sub>2</sub> <sup>-</sup> ) : ≤ 0.001% |
| <b>Cation</b>             | Iron (Fe) : ≤ 3 ppm<br>Sodium (Na) : ≤ 0.005%<br>Calcium (Ca) : ≤ 0.005%<br>Magnesium (Mg) : ≤ 0.002%   |
| <b>pH</b>                 | 4.5 - 8.5   |
| <b>Insoluble material</b> | ≤ 0.005%  |
| <b>Assay by titration</b> | ≥ 99%   |
| <b>Grade</b>              | ACS reagent   |
| <b>Storage</b>            | Store at RT   |

**For Laboratory Use Only**